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02/08/01

1031 U.S. PTO

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. NOVT 100

First Inventor Carsten Sjoeholm

Title USE OF ACID-STABLE SUBTILISIN PROTEASES IN ANIMAL FEED

Express Mail Label No. EL 709 418 884 US

JC072 U.S. PTO 09/17/9334

02/08/01

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 54]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
5. Oath or Declaration [Total Pages 3]
 - a. ☒ Unexecuted
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 17 completed)
 - c. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
6. ☒ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☒ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☒ paper
 - c. ☒ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☒ Other Check for \$950.00

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No. _____

Group / Art Unit _____

Prior application information

Examiner _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion of the disclosure is omitted from the submitted application parts.

18. OFFICE ADDRESS

☒ Internet, e-mail, or other electronic address

23579

PATENT TRADEMARK OFFICE

Name	Patrea L. Pabst Arnall Golden & Gregory, LLP		
Address	2800 One Atlantic Center 1201 West Peachtree Street		
City	Atlanta	State	GA
		Zip Code	30309-3450

1011873.8795

Signature

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Complete if Known

Application Number	
Filing Date	February 8, 2001
First Named Inventor	Carsten Sjoeholm
Examiner Name	
Group Art Unit	
Attorney Docket No	NOVT 100

TOTAL AMOUNT OF PAYMENT (\$950.00)

METHOD OF PAYMENT (check one)

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 01-2507
Deposit Account Name: Arnall Golden & Gregory, LLP

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status See 37 CFR 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 710	201 355	Utility filing fee	710.00
106 320	206 160	Design filing fee	
107 490	207 245	Plant filing fee	
108 710	208 355	Reissue filing fee	
114 150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$710.00)

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
13	- 20 = 0		0
6	- 3 = 3	80.00	240.00

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
102 15	202 9	Claims in excess of 20
103 70	203 40	Independent claims in excess of 3
104 270	204 135	Multiple dependent claim, if not paid
109 80	209 40	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$240.00)

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	239 130	Non-English specification	
147 2 520	247 2 520	For filing a request for ex parte reexamination	
112 920*	212 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	213 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 390	216 195	Extension for reply within second month	
117 890	217 445	Extension for reply within third month	
118 1 390	218 695	Extension for reply within fourth month	
128 1 890	228 945	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1 510	238 1 510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1 240	241 620	Petition to revive - unintentional	
142 1 240	242 620	Utility issue fee (or reissue)	
143 440	243 220	Design issue fee	
144 600	244 300	Plant issue fee	
122 130	222 130	Petitions to the Commissioner	
123 50	223 50	Petitions related to provisional applications	
126 240	226 240	Submission of Information Disclosure Sheet	
581 40	581 40	Recording each patent assignment per property times number of properties	
145 11	245 5.5	Filing a submission after final rejection 37 CFR § 1.129(a)(1)	
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179 710	279 355	Request for Continued Examination (RCE)	
169 900	269 900	Request for expedited examination of a design application	

Other fee (specify):

SUBTOTAL (3) (\$)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Carsten Sjoeholm, Peter Rahbek Oestergaard, and Anna-Marie Kluenter

Serial No.:

Express Mail Label No.: EL 709 418 884 US

Filed: February 8, 2001

Date of Deposit February 8, 2001

For: USE OF ACID-STABLE SUBTILISIN PROTEASES IN ANIMAL FEED

BOX PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231

**EXPRESS MAIL TRANSMITTAL LETTER
FOR PATENT APPLICATION AND CERTIFICATE OF MAILING**

Sir:

Pursuant to 35 U.S.C. § 21(a) as amended by Public Law 97-247 and 37 C.F.R. § 1.10, applicants enclose for filing the attached patent application entitled "*Use of Acid-Stable Subtilisin Proteases in Animal Feed*", which claims priority to U.S.S.N. 60 183,133 filed February 17, 2000, which claims priority to foreign application No. 2000 00200 filed in Denmark on February 8, 2000. The application includes 1 page of Abstract, 51 pages of specification, 2 pages of claims, 3 sheets of informal drawings, a 3-1/2 inch sequence listing diskette, a paper copy of the sequence listing, an unexecuted Declaration for Patent Application, and an unexecuted Power of Attorney or Authorization of Agent. An executed Declaration for Patent Application, Power of Attorney or Authorization of Agent, and Assignment to

Title: *Use of Acid Stable Nubulisin Proteases in Animal Feed*
Filed: February 8, 2001
Express Mail Transmittal Letter for
Patent Application and Certificate of Mailing
Express Mail Label No. 417 09 418 8841 S
Date of Deposit: February 8, 2001

A Preliminary Amendment is enclosed.

This application contains nucleic acid and or protein sequences as defined in 37 C.F.R. §§ 1.821-1.825. Pursuant to 37 C.F.R. §§ 1.821-1.825, applicants enclose a 3 1/2" diskette containing a computer-readable form of the Sequence Listing for the above-identified application. A paper copy of the Sequence Listing is incorporated into the application.

I declare that the material on the diskette is identical to the paper copy of the Sequence Listing present in the above-identified application, and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements may jeopardize the validity of the application or any patent issuing thereon.

A check in the amount of \$950.00 to cover the filing fee is enclosed. It is believed that \$950.00 is the proper filing fee for a large entity, as the application includes 6 independent claims and a total of 13 claims after entry of the enclosed Preliminary Amendment.

The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment to Deposit Order Account No. 01-2507. To facilitate this process, applicants have enclosed a duplicate of this letter.

This application is being filed on February 8, 2001 by mailing the application to the Assistant Commissioner for Patents, Washington, D.C. 20231 via the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10. The Express

Title: *Use of Acid Stable Subtilisin Proteases in Animal Feed*
Filed: February 8, 2001
Express Mail Transmittal Letter for
Patent Application and Certificate of Mailing
Express Mail Label No. 11 9418 884 US
Date of Deposit: February 8, 2001

Mail label number appears in the heading of this paper which is attached to the application papers pursuant to 37 C.F.R. § 1.10(b).

All correspondence concerning this application should be mailed to:

Patrea L. Pabst, Esq.
ARNALL GOLDEN & GREGORY, LLP
2800 One Atlantic Center
1201 West Peachtree Street
Atlanta, Georgia 30309-3450

Respectfully submitted,

Patrea L. Pabst
Reg. No. 31,284

Date: February 8, 2001

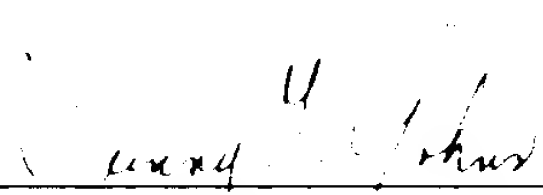
ARNALL GOLDEN & GREGORY, LLP
2800 One Atlantic Center
1201 West Peachtree Street
Atlanta, Georgia 30309-3450
(404) 873-8794
(404) 873-8795 Telefax

Title: *Use of Acid Stable Subulisin Protocases in Animal Feed*
Filed: February 8, 2001
Express Mail Transmittal Letter for
Patent Application and Certificate of Mailing
Express Mail Label No. EL 709 418 884 US
Date of Deposit: February 8, 2001

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

I hereby certify that this Express Mail Transmittal Letter for Patent Application and Certificate of Mailing and any documents referred to as attached therein are being deposited with the United States Postal Service on this date, February 8, 2001, in an envelope as "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, mailing label number EL 709 418 884 US, addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: February 8, 2001



Sunny G. Johns

2000 - 01145 - 01

BUDAPEST TREATY ON THE INTERNATIONAL
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

SC987 U.S. PTO
09/779334
02/08/01

Novo-Nordisk a/s
Postbox 3000
2880 BAGSVAERD
Denemarken

name and address of depositor

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT
issued pursuant to Rule 7.1 by the
INTERNATIONAL DEPOSITARY AUTHORITY
identified at the bottom of this page

I. IDENTIFICATION OF THE MICROORGANISM

Identification reference given by the
DEPOSITOR:

NN048145

Accession number given by the
INTERNATIONAL DEPOSITARY AUTHORITY:

CBS 102448

II. SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under I above was accompanied by:

☐ a scientific description

☒ a proposed taxonomic designation

(mark with a cross where applicable)

III. RECEIPT AND ACCEPTANCE

This International Depositary accepts the microorganism identified under I above, which
received by it on 17-01-2000 (date dd-mm-yy of the original deposit) 1

IV. RECEIPT OF REQUEST FOR CONVERSION

The microorganism identified under I above was received by this International Depositary
Authority on not applicable (date dd-mm-yy of the original deposit) and a
request to convert the original deposit to a deposit under the Budapest Treaty was received
by it on not applicable (date dd-mm-yy of receipt of request for conversion)

V. INTERNATIONAL DEPOSITARY AUTHORITY

Name: Centraalbureau voor Schimmelcultures

Address: Oosterstraat 1
P.O. Box 273
3740 AG BAARN

Signature(s) of person(s) having the power
to represent the International Depositary
Authority or of authorized official(s):

Mrs F.B. Snippe-Claus

Dr J.A. Stalpers

01.02.2000

2000-01145-01

BUDAPEST TREATY ON THE INTERNATIONAL
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

Novo-Nordisk a/s
Postbox 3000
2880 BAGSVAERD
Denemarken

*name and address of the party to whom the
viability statement is issued*

VIABILITY STATEMENT
issued pursuant to Rule 10.2 by the
INTERNATIONAL DEPOSITARY AUTHORITY
identified on the following page

I. DEPOSITOR	II. IDENTIFICATION OF THE MICROORGANISM
<p>Name: Novo-Nordisk a/s</p> <p>Address: Postbox 3000 2880 BAGSVAERD Denemarken</p>	<p>Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:</p> <p>CBS 102448</p> <p>Date (dd-mm-yy) of the deposit or of the transfer: 1 17-01-2000</p>
<p>III. VIABILITY STATEMENT</p> <p>The viability of the microorganism identified under II above was tested on 21-01-2000 2. On that date (dd-mm-yy), the said microorganism was</p> <p><input checked="" type="checkbox"/> ³ viable</p> <p><input type="checkbox"/> ³ no longer viable</p>	

¹ Indicate the date of the original deposit or, where a new deposit or a transfer has been made, the most recent relevant date (date of the new deposit or date of the transfer).

² In the cases referred to in Rule 10.2(a)(ii) and (iii), refer to the most recent viability test.

³ Mark with a cross the applicable box.

IV. CONDITIONS UNDER WHICH THE VIABILITY HAS BEEN PERFORMED

4

V. INTERNATIONAL DEPOSITARY AUTHORITY

Name: Centraalbureau voor Schimmelcultures

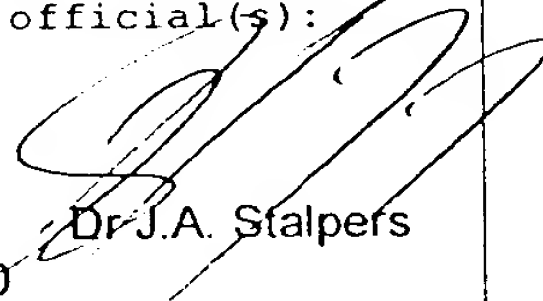
Address: Oosterstraat 1
P.O. Box 273
3740 AG BAARN
The Netherlands

Signature(s) of person(s) having the power
to represent the International Depositary
Authority or of authorized official(s):



Mrs F.B. Snippe-Claus

Date (dd-mm-yy): 01-02-2000



Dr J.A. Stalpers

⁴ Fill in if the information has been requested and if the results of the test were negative.